
मछली पकड़ने के गियर की मार्गदर्शिका

भाग 19 : 21.6 मी (450 मेश) तली से
मछली पकड़ने वाले ट्रॉल जाल

(पहला पुनरीक्षण)

Guide for Fishing Gear

Part 19 : 21.6 m (450 Mesh) Bottom Fish Trawl Net

(First Revision)

ICS 65.150

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भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
मानक भवन, 9 बहादुरशाह ज़फर मार्ग, नई दिल्ली – 110002
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI-110002
www.bis.gov.in www.standardsbis.in

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by Textile Materials for Marine/Fishing Purposes Sectional Committee had been approved by the Textile Division Council.

This standard was originally published in 1979 and has now been revised to incorporate the latest developments in this field.

This standard consists of number of parts. Part 1 deals with the general requirements while the subsequent parts cover different types of fishing gears.

The composition of the Committee responsible for the formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard***GUIDE FOR FISHING GEAR****PART 19 : 21.6 m (450 MESH) BOTTOM FISH TRAWL NET***(First Revision)***1 SCOPE**

This standard (Part 19) specifies guidelines for construction of 21.6 m (450 mesh) bottom fish trawl nets.

2 REFERENCES

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards indicated below.

<i>IS No.</i>	<i>Title</i>	<i>IS No.</i>	<i>Title</i>
4401 : 2006	Textiles — Twisted nylon fishnet twines (<i>fourth revision</i>)	5508 (Part 1) : 2020	Guide for fishing gear — General (<i>first revision</i>)
		6347 : 2003	Textile — Polyethylene monofilament twines for fishing — Specification (<i>first revision</i>)
		7533 : 2003	Textiles — Polyamide (nylon) monofilament yarn for fishing — Specification (<i>second revision</i>)

3 CONSTRUCTION

The particulars of webbing, ropes and other accessories used for construction of 21.6 m (450 mesh) bottom fish trawl nets are given in the data sheet when read with Fig.1.

DATA SHEET FOR 26.1-m (450 MESH) BOTTOM FISH TRAWL NET											
NAME OF GEAR : 26.1-m (450 MESH) BOTTOM FISH TRAWL NET							Vessel – Overall Length m, 23.85 Horse Power: 480-600				
TYPE	LOCALITY: South West Coast of India						MAIN SPECIES CAUGHT: Perches, Sciamds, Cat fish, Ray, etc.				
PARTICULARS OF WEBBING											
WEBBING	A	B	C	D	E	F	G	H	I	J	K
Material	Polyethylene Monofilament Twisted/Braided										
Type of knot	Trawl knot										
Preservation	Nil										
Colour	As ordered										
Twine size, (dia) mm	2	2	2	2	2	2	2	2	2	3	4 double
*Breaking strength, N	34 (333)	34 (333)	34 (333)	34 (333)	34 (333)	34 (333)	34 (333)	34 (333)	34 (333)	68 (666)	165 (1617)
Stretched mesh, mm	140	140	140	140	140	110	120	100	80	70	140
Upper edge, m	9	7	59	32	210	40	225	230	237	160	85
Lower edge, m	59	32	75	40	193	71	192	190	70	160	85
Depth, m	24 $\frac{1}{2}$	24 $\frac{1}{2}$	39 $\frac{1}{2}$	39 $\frac{1}{2}$	40 $\frac{1}{2}$	40 $\frac{1}{2}$	50 $\frac{1}{2}$	60 $\frac{1}{2}$	150 $\frac{1}{2}$	86	20
Cutting rate $\frac{\text{Inner}}{\text{Outer}}$	–	All B	All B	All B	–	All B	–	–	–	–	–
	–	All P	1P 3B	1P 8B	2P 1B	2P 1B	1P 1B	1P 1B	2P 5B	All P	All P
Selvedge	3 Mesh double thread										
Hanging	$\frac{a}{A} = \frac{3.50}{3.43}$	$\frac{b}{C} = \frac{3.50}{3.43}$	$\frac{c}{E} = \frac{5.60}{5.53}$	$\frac{d}{A} = \frac{5.60}{5.67}$	$\frac{e}{B} = \frac{3.40}{8.40}$	$\frac{f}{D} = \frac{5.60}{5.67}$	$\frac{g}{G} = \frac{4.00}{8.26}$	–	–	–	–
Total quantity, kg	133										
PARTICULARS OF LINES AND ROPES											
LINE/ROPE	a	b	c	d	e	f	g	h	i	j	k
Material	Combination steel core							Polyethylene		Combination rope	Polyethylene
Preservation	NIL										
Diameter, mm	16	16	16	16	16	16	16	12	16	16	12
Breaking strength, kg (N)	2200 (21560)							1200 (11760)	1200 (11760)	2200 (21560)	1200 (11760)
Length, m	3.50	5.60	3.50	5.60	3.40	5.60	4.00	3.50	4.00	2.00	Along bar
PARTICULARS OF OTHER ACCESSORIES							OTHER INFORMATION				
ACCESORIES	FLOATS	SINKERS	SWEEP LINE	OTTER BOARDS			HEAD ROPE	: 21.6 m			
Number	11	–	2	2			FOOT ROPE	: 33.4 m			
Material	Plastic	Rubline	Steel wire	Iron & wood Oval (Single suit)			NOTES	1 IS 5508 (Part 1) : 2020 'Guide for fishing gear; Part 1 General' forms a preface to this part.			
Shape	Spherical	–	–				2	Reference may be made to IS 4401, IS 6347 and IS 7533 for relevant materials.			
Diameter, mm	200	–	14					*1 Newton is equivalent to 0.98 kgf			
Length, cm	–	3320	7000	237							
Breadth, cm	–	–	–	139							
Static buoyancy, kg	3.30	–	–	–							
Weight in air, N	0.910	75	–	460							

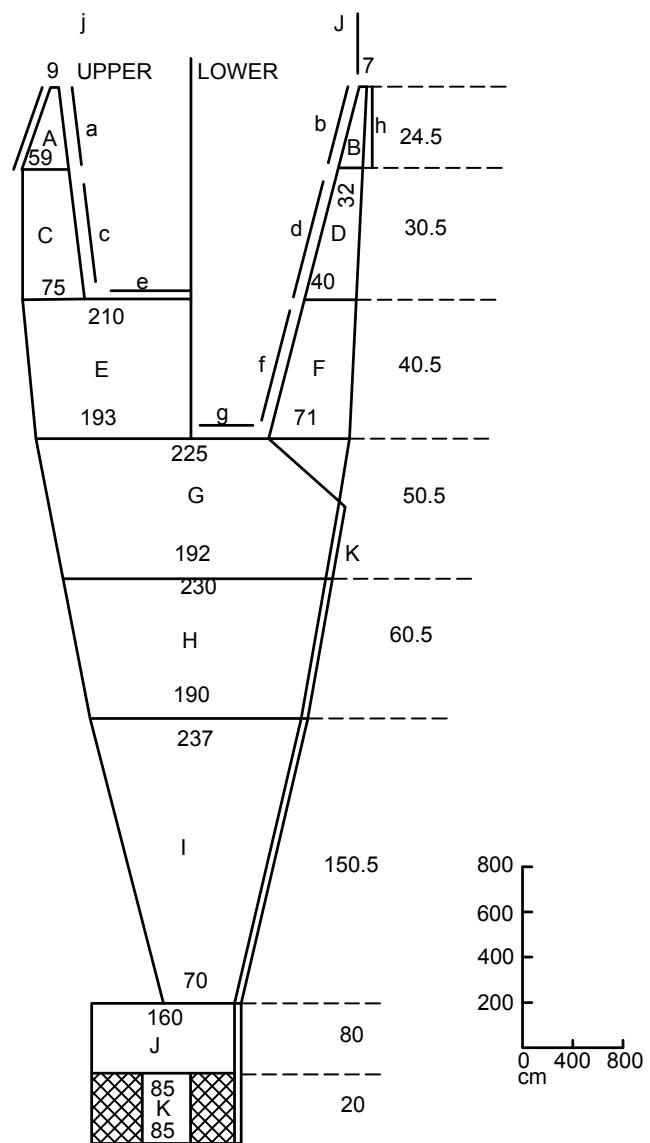


FIG. 1 21.6 M (450 MESH) BOTTOM FISH TRAWL NET

ANNEX A

(*Foreword*)

COMMITTEE COMPOSITION

Textile Materials for Marine/Fishing Purposes Sectional Committee, TXD 18

<i>Organization</i>	<i>Representative(s)</i>
ICAR-Central Institute of Fisheries Technology, Kochi	SHRIMATI (Dr) SALLY N. THOMAS (Chairman)
Association of Indian Fishery Industries, New Delhi	SHRI T. RAGUNATH REDDY DR C. BABU RAO (<i>Alternate</i>)
Centre for Marine Living Resources and Environment, Kochi	DR SHERINE SONIA CUBELIO DR HASHIM (<i>Alternate</i>)
Central Institute of Fisheries, Nautical and Engg Training, Kochi	SHRI M. G. MAKWANA
ICAR-Central Institute of Brackishwater Aquaculture, Chennai	SHRI JOSE ANTONY
ICAR-Central Institute of Fisheries Technology, Kochi	SHRIMATI (Dr) SALLY N. THOMAS DR SANDHYA K. M. (<i>Alternate</i>)
ICAR-Central Marine Fisheries Research Institute, Kochi	DR RATHEESH
Fisheries Development Commissioner, New Delhi	DR PAUL PANDIYAN DR SANJAY PANDEY (<i>Alternate</i>)
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The Karnataka Fisheries Development Corporation Ltd, Bangalore	MANAGING DIRECTOR
The Kerala State Cooperative Federation for Fisheries Development Ltd, Kochi	SHRI P. SURENDREN
The Marine Products Export Development Authority, Kochi	DR M. K. RAMMOHAN SHRI A. SAKTHIVEL (<i>Alternate</i>)
BIS Directorate General	SHRI A. K. BERA, SCIENTIST 'F' AND HEAD (TXD) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

Member Secretary

SHRI A. K. BERA
SCIENTIST 'F' AND HEAD (TEXTILES), BIS

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones: 2323 0131, 2323 3375, 2323 9402

Website: www.bis.gov.in

Regional Offices:

		Telephones
Central	: Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002	{ 2323 7617 2323 3841
Eastern	: 1/14 C.I.T. Scheme VII M, V.I.P. Road, Kankurgachi KOLKATA 700054	{ 2337 8499, 2337 8561 2337 8626, 2337 9120
Northern	: Plot No. 4-A, Sector 27-B, Madhya Marg CHANDIGARH 160019	{ 265 0206 265 0290
Southern	: C.I.T. Campus, IV Cross Road, CHENNAI 600113	{ 2254 1216, 2254 1442 2254 2519, 2254 2315
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